

**Amendments to the Specification**

Applicant is correcting the misspelling of the term "Derivattive" to "Derivative" at Page 15, line 2. As such, please replace paragraph [0047] of the application (published version) with the following amended paragraph:

[0047] Many operations in a chemical process are routinely controlled using a Proportional Integral ~~Derivative~~ Derivative (PID) controller. These controllers, while very useful in a conventional setting, are not preferred for the present invention. Such controllers are designed and used to monitor a single process variable and perform their control function based upon that single variable. In an embodiment of the present invention, many PID controllers, are used in conjunction with a second controller that can receive data from the PID controller and then reprogram the PID controller based upon the total inputs from the reactor sensors and controllers.

**Amendments to the Claims:**

Claims 3-5, 7, and 9-11 are allowable, if rewritten. Other claim amendments have been made, as follows:

**Listing of Claims:****WHAT IS CLAIMED IS:**

1. (Cancelled)
2. (Cancelled)